ROCHESTER COMMUNITY AND TECHNICAL COLLEGE

COMMON COURSE OUTLINE

Course discipline/number/title: FST 1510: Welding Theory and Safety

A. CATALOG DESCRIPTION
1. Credits: 1
2. Hours/Week: 1
3. Prerequisites (Course discipline/number): None
4. Other requirements: None
5. MnTC Goals (if any): NA

B. COURSE DESCRIPTION: This course covers actual use of arc, gas, M.I.G, and T.I.G. welding along with proper safety and equipment care. Recommended Skills/Knowledge: Basic technical skills/knowledge: High School Diploma or GED.

C. DATE LAST REVISED (Month, year): December, 2021

D. OUTLINE OF MAJOR CONTENT AREAS:
1. Welding and shop safety
2. Identify various weld joints
3. Basic welding theory
4. Safe practices, quality, PPE (personal protections equipment) and unsafe conditions.

E. LEARNING OUTCOMES (GENERAL): The student will be able to:
1. Identify various welding electrodes.
2. Explain Weld joints.
3. Explain GTAW systems.
4. Explain GMAW systems.
5. Explain oxy-acetylene systems.
6. Explain welding safety.

F. LEARNING OUTCOMES (MNTC): NA

G. METHODS FOR EVALUATION OF STUDENT LEARNING: Methods may include but are not limited to:
1. Daily Lab Assignments
2. Exams

H. RCTC CORE OUTCOME(S). This course contributes to meeting the following RCTC Core Outcomes(s): Critical Thinking. Students will think systematically and explore information thoroughly before accepting or formulating a position or conclusion.

I. SPECIAL INFORMATION (if any): None